

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/002847 A1

- (51) International Patent Classification⁷: **B32B 27/08**, 27/30, 27/32, 27/36, A61J 1/00
- (21) International Application Number: PCT/EP2004/007215
- (22) International Filing Date: 2 July 2004 (02.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03015046.0 3 July 2003 (03.07.2003) EP
- (71) Applicant (for all designated States except US): **B. BRAUN MEDICAL AG** [CH/CH]; Rüeeggisinger Strasse 29, CH-6020 Emmenbrücke (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LORETTI**, Maurice [CH/CH]; 7 bis, Chemin coin de Terre, CH-1219 Chatelaine (CH). **CHATTOT**, Raoul [CH/CH]; 36 Chemin de la Tuilière, CH-1040 Echallens (CH). **DJOKIC**, Savka [CH/CH]; 212 Route de Chavanne, CH-1007 Lausanne (CH).
- (74) Agent: **JÖNSSON, Hans-Peter**; Von Kreisler Selting Werner, Deichmannhaus am Dom, Bahnhofsvorplatz 1, 50667 Cologne (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MULTILAYER FILM

(57) Abstract: The present invention relates to a sterilizable multilayer film for containers containing solutions, suspensions, solids or mixtures for parenteral or enteral nutrition or tube feeding, optionally in a spatially separated arrangement of the contents, having a three-layered structure with an inner layer being in contact with the content of the container, an intermediate layer and an outer layer facing the environment, said layers optionally connected by tie and/or adhesive layers, wherein the oxygen transmission rate at 23 °C through the multilayer film determined by the oxygen transmission of the intermediate layer is less than 0.7 ml/m²d, said inner layer having a thickness of from 30 to 120 µm, said intermediate layer having a thickness of from 5 to 35 µm and said outer layer having a thickness of from 20 to 40 µm, and allowing desorption of water absorbed in the intermediate layer during sterilization after said sterilization at 121 °C.

WO 2005/002847 A1